

Stanford Linear Accelerator Center



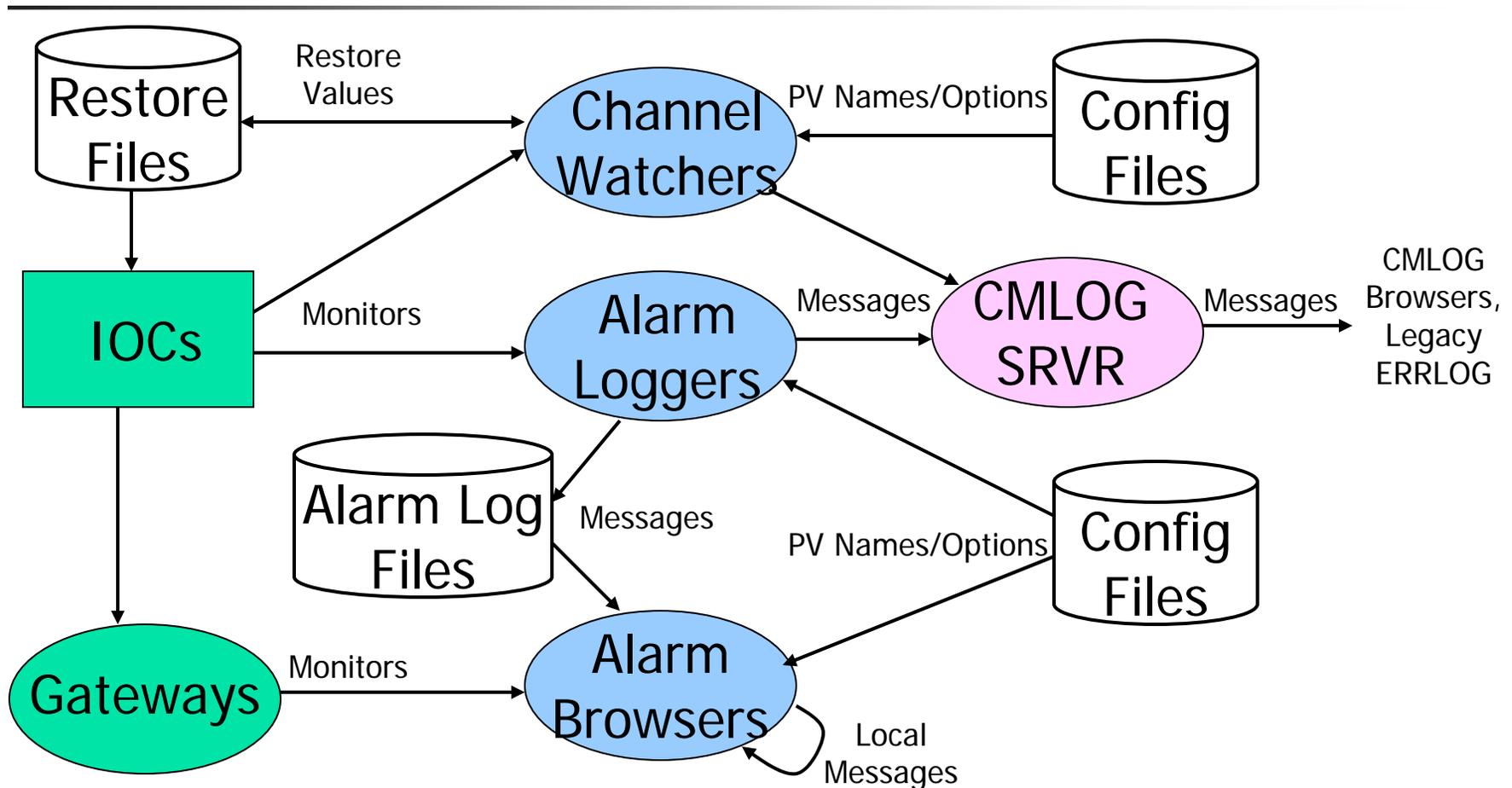
Alarm Handler Upgrade and Channel Watcher Status

ALH Upgrade: Judy Rock

Channel Watcher: Mike Zelazny/James Silva



Alarm Handler (ALH) and Channel Watcher at SLAC





ALH at SLAC

3 Modes of Operation:

- **Standalone Alarm Loggers**
 - ✓ All alarms to CMLOG, last 1000 msgs in alarm log
 - ✓ Multiple processes to logically divide PVs
 - ✓ No user interface - Xvfb (X virtual frame buffer)
- **Read-Only Alarm Browsers**
 - ✓ View messages only, no logging
 - ✓ No global operator action
- **Operator Alarm Browsers (not yet used)**
 - ✓ View messages
 - ✓ Operator action logging, no alarm logging
 - ✓ Global acknowledgement and other actions



ALH – Additions to 1.2.9

- More verbose CMLOG “text” tag (-wCM)
- CMLOG “host” tag set to IOC (-wCM)
- Allow browser other than Netscape (-b)
- Disable writing to alarm log file (-Dal)
- Treat EOL in guidance like a blank line
- Files needed for message broadcast kept in log area instead of config area



ALH – Status, Comments, Wishes

- In production since April, 2002
- In progress: throttling of CMLOG messages
- Problem when using the LOCK feature
- Need configurable delay time for message broadcasting
- Problem with PV change logging when in global mode
- Allow config file NoAck option to override the ACKT field
- Replace config files with Oracle database



Channel Watcher Status

- In production since January 2002
- ENUM and CW restart problems fixed
- CMLOG is now a plug-in at build time
- Distribution web page now available
- ...but CW currently works for only a special restore file format



Channel Watcher To-Do List

- In progress: throttling of CMLOG messages
- Convert restore file format to type used by caGet and caPut
- Add web interface for statistics
- Replace config files with Oracle database
- Write restore values to Oracle